




Accessories for MVA-20

Below, the accessories are grouped into Scope of delivery and Optional accessories. Please keep this printout at hand for ordering replacement material. These lists may be subject to change.

Scope of delivery MVA-20

Qty.	Order no.	Description	
2 pcs	2.800.0010	800 Dosino	
		Drive with write/read hardware for intelligent Dosing Units. With fixed cable (length 150 cm).	
1 pcs	2.843.0240	843 Membrane Pump Station for Professional VA/CVS systems	
		<p>The 843 Membrane Pump Station enables the automatic rinsing and emptying of the measuring vessel in partly automated and fully automated Professional VA and CVS systems. It has two built-in membrane pumps that can be controlled via the remote signal.</p> <p>The versions for VA and CVS are equipped with the complete accessories for the automatic rinsing and emptying of the measuring vessel.</p>	
1 pcs	2.894.1210	894 Professional CVS semiautomated	
		<p>894 Professional CVS semiautomated is a convenient, high-end routine analyzer for the determination of organic additives in electroplating baths using "Cyclic Voltammetric Stripping" (CVS), "Cyclic Pulse Voltammetric Stripping" (CPVS) and Chronopotentiometry (CP). The proven Metrohm electrode technique in combination with a completely newly designed potentiostat/galvanostat and the extremely high-performance viva software opens up new perspectives in CVS. The replaceable measuring head enables rapid changes between various applications with different electrodes. The potentiostat with certified calibrator readjusts itself automatically before each measurement and guarantees a maximum in precision. The integrated temperature measurement input allows you to monitor the solution temperature during the measurement.</p> <p>The two 800 Dosinos supplied permit auxiliary solutions to be added automatically during the determination, e.g., VMS, standard solutions or samples for the Dilution Titration technique (DT).</p> <p>The viva software is required for control, data recording and evaluation.</p> <p>The 894 Professional CVS semiautomated is supplied with extensive accessories and a measuring head for rotating disk electrodes. Electrode set and viva license are to be ordered separately.</p>	

1 pcs 2.919.0120 919 IC Autosampler plus for CVS

The 919 IC Autosampler plus for CVS, in conjunction with Professional VA/CVS instruments and **viva**, is suitable for small sample series of fully automatic determinations of organic additives in electroplating bath, e.g. "brighteners" and "suppressors" using "Cyclic Voltammetric Stripping" (CVS). The system is controlled directly by the **viva** software and permits automatic changes of method between different types of determinations. The sample rack supplied holds 14 samples with a maximum size of 50 mL.

The 919 IC Autosampler plus for CVS is supplied with accessories, sample rack, and connection cable so you can set up a complete workplace, although it does not come with rinsing equipment.



1 pcs 6.2141.300 Remote cable 843 Pump Station to Sample Processor

Remote cable for the direct connection of the 843 Pump Station to the pump connectors of the Sample Processors








1 pcs 6.5339.500 Equipment with 2 dosing units for VA and CVS measurements

Accessory set for two auxiliary solutions for expanding VA or CVS systems. Contains two 2 mL dosing units, two 100 mL clear glass bottles, bottle holder for two bottles and connector material. Without Dosinos.



Optional accessories

Order no.	Description
<p>2.846.0010 846 Dosing Interface</p> <p>USB-capable control unit for connecting a maximum of four 800 Dosinos or 805 Dosimats for dosing and Liquid Handling tasks. A Touch Control or the connection to a PC with tiamo™, MagIC Net, viva or 797 VA Computrace is required for operation.</p>	
<p>6.1110.120 Pt1000 temperature sensor for CVS (installation length 9 cm)</p> <p>Pt1000 temperature sensor (class B) for Professional CVS Instruments.</p>	
<p>6.2104.140 Electrode cable / 1 m / 2 x 2 mm</p> <p>For connecting temperature sensors with Metrohm plug-in head G with 780, 781, 826, 827 pH/Ion meters and all Titrandos</p>	
<p>6.5339.000 CVS electrode equipment with 1 mm platinum electrode for Professional VA/ CVS instruments</p> <p>Complete electrode set for the determination of organic additives in electroplating baths with CVS (Cyclic Voltammetric Stripping). Contains rotating platinum working electrode (electrode diameter: 1 mm), reference electrode, platinum auxiliary electrode, measuring vessels and electrolyte solutions.</p>	
<p>6.5339.010 CVS electrode equipment with 2 mm platinum electrode for Professional VA/ CVS instruments</p> <p>Complete electrode set for the determination of organic additives in electroplating baths with CVS (Cyclic Voltammetric Stripping). Contains rotating platinum working electrode (electrode diameter: 2 mm), reference electrode, platinum auxiliary electrode, measuring vessels and electrolyte solutions.</p>	

6.5339.020 CVS electrode equipment with 3 mm platinum electrode for Professional VA/CVS instruments

Complete electrode set for the determination of organic additives in electroplating baths with CVS (Cyclic Voltammetric Stripping). Contains rotating platinum working electrode (electrode diameter: 3 mm), reference electrode, platinum auxiliary electrode, measuring vessels and electrolyte solutions.



6.5339.060 CVS electrode equipment with 2 mm platinum electrode for Professional VA/CVS instruments for intensive use

Complete electrode set for the determination of organic additives in electroplating baths with CVS (Cyclic Voltammetric Stripping). Contains rotating platinum working electrode (electrode diameter: 2 mm), driving axle with mercury contact, maintenance-free gel reference electrode, platinum auxiliary electrode, measuring vessels and KCl electrolyte solution.



6.6065.212 viva 2.1 Full CD: 1 license

Computer program for control and data management of Professional VA/CVS instruments. The software permits checks, data acquisition, evaluation, and monitoring, as well as report generation.

Graphic user interface for routine operations, extensive database programs with reevaluation, graphic method editor with numerous templates, system configuration, very flexible user administration, extensive data export functions, individually configurable report generator.

Includes the measuring modes "Differential Pulse" (DP), "Square Wave" (SQW), "Cyclic Voltammetric Stripping" (CVS), "Cyclic Pulse Voltammetric Stripping" (CPVS), and Chronopotentiometry (CP). The following calibration techniques are supported: standard addition, external calibration, DT (Dilution Titration), LAT (Linear Approximation Technique), MLAT (Modified Linear Approximation Technique), RC (Response Curve).

Dialog languages: German, English, Chinese.

The following instruments are supported:
884 Professional VA, 894 Professional CVS

1 license for a maximum of 4 Professional VA/CVS instruments on a single PC.



6.6065.213 viva 2.1 Multi CD: 3 licenses

Client/server-compatible computer program for control and data management of Professional VA/CVS instruments. The software permits checks, data acquisition, evaluation, and monitoring, as well as report generation.

Graphic user interface for routine operations, extensive database programs with reevaluation, graphic method editor with numerous templates, system configuration, very flexible user administration, extensive data export functions, individually configurable report generator.

Includes the measuring modes "Differential Pulse" (DP), "Square Wave" (SQW), "Cyclic Voltammetric Stripping" (CVS), "Cyclic Pulse Voltammetric Stripping" (CPVS), and Chronopotentiometry (CP). The following calibration techniques are supported: standard addition, external calibration, DT (Dilution Titration), LAT (Linear Approximation Technique), MLAT (Modified Linear Approximation Technique), RC (Response Curve).

Dialog languages: German, English, Chinese.

The following instruments are supported:
884 Professional VA, 894 Professional CVS

Client/server version with 3 licenses for 3 PCs with a maximum of 4 Professional VA/CVS instruments per PC.

